



**TRI-MAG, Inc.**  
*your* POWER Specialists

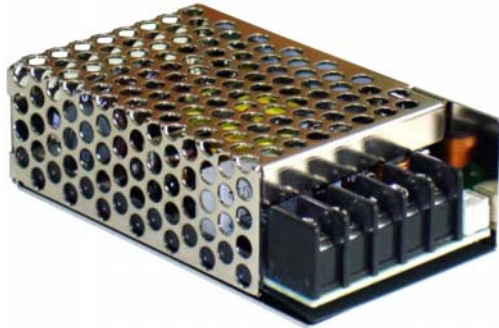
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# SNP-C03 SERIES

## 30 Watts

### Industrial Applications

### 45 Watts Peak Current



#### GENERAL SPECIFICATIONS

Input Voltage..... 85VAC to 264VAC  
 Input Frequency..... 47Hz to 63Hz  
 Inrush Current (cold)..... Less than 30A at  
 115VAC, 25°C  
 Operating Temperature..... -20 to 70°C  
 de-rated 2.5%/°C >50°C  
 Storage Temperature.....-40°C to 85°C  
 Cooling..... Free Air Convection  
 Efficiency.....75% to 85%  
 Holdup Time.....>16ms at 115VAC  
 Overvoltage Type..... Latch Off  
 Overload Protection..... Auto recovery  
 Short Circuit Protection.....Auto recovery  
 Designed in full compliance with UL 60950-1,  
 CSA 22.2 #60950-1,  
 EN60950-1  
 EMI .....FCC "B"  
 EN55022 "B", EN55011 "B"  
 EMS.....EN61000-4-2,-3,-4,-5,-6,-8,-11  
 Harmonics.....EN61000-3-2

#### DESCRIPTION

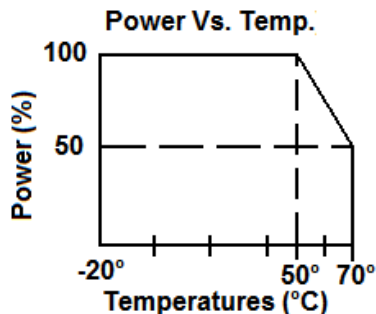
SNP-C03 series is a universal input single output power supply. The series is a 30 watt power supply in the size of 2" x 3.54" with a wattage density of 3.7W/in<sup>3</sup>. The efficiency can reach up to 75-85% depending on model.

#### FEATURES

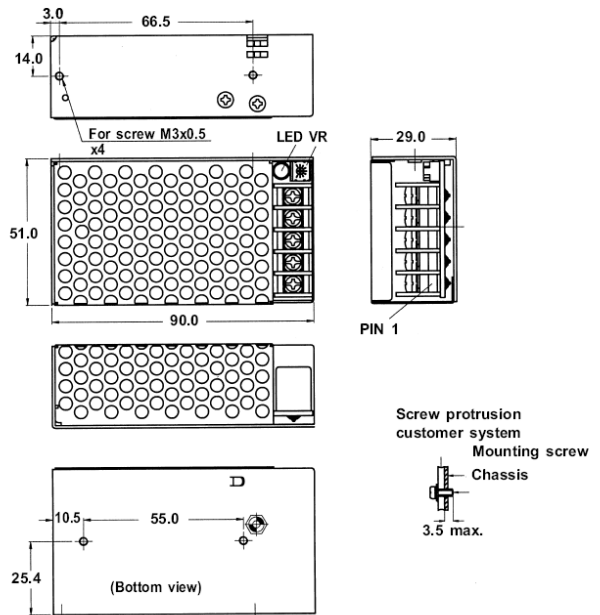
- EMI FCC Class B
- No Minimum Load Required
- Single and Multiple Output
- Universal input 90VAC to 264VAC
- Low Leakage Current
- Double Fused

#### APPLICATIONS

- Computer Peripherals
- Telecommunications
- Tape Drives
- Test Instrumentation Product
- Data Acquisition
- Industrial



#### MECHANICAL SPECIFICATIONS



Connector:  
 AC input & DC output : Terminal Block 7.62mm / 0.3" Spacing  
 Size: 51mm x 90mm x 29mm ; 2.0" X 3.54" X 1.142"  
 Net Weight 180g approx. / Unit



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### OUTPUT SPECIFICATIONS

| Model    | Watts | Voltage (Vdc) | Load (A) |      |      | Voltage Tolerance | Ripple & Noise Pk to Pk | Regulation |      |
|----------|-------|---------------|----------|------|------|-------------------|-------------------------|------------|------|
|          |       |               | Min.     | Rate | Peak |                   |                         | Line       | Load |
| SNP-C03B | 30    | +3.3V         | 0        | 6    | 9    | +3.25V~+3.355V    | 50mVpp                  | ±1%        | ±1%  |
| SNP-C036 | 30    | +5V           | 0        | 6    | 9    | +4.95V~+5.05V     | 50mVpp                  | ±1%        | ±1%  |
| SNP-C037 | 30    | +12V          | 0        | 2.5  | 3.75 | +11.4V~+12.6V     | 120mVpp                 | ±1%        | ±1%  |
| SNP-C038 | 30    | +15V          | 0        | 2    | 3    | +14.25V~+15.75V   | 150mVpp                 | ±1%        | ±1%  |
| SNP-C039 | 30    | +24V          | 0        | 1.3  | 1.9  | +22.8V~+25.2V     | 240mVpp                 | ±1%        | ±1%  |
| SNP-C03T | 30    | +48V          | 0        | 0.63 | 0.95 | +45.6V~+50.4V     | 240mVpp                 | ±1%        | ±1%  |

**Note:** Contact factory for Safety Agency Approved status.

1. Peak Load can be provided up to 8 seconds..
2. At factory, in 60% rated load condition, each output is checked to be within voltage accuracy.
3. Line regulation is defined by changing ±10% of input voltage from nominal line at rated load.
4. Load regulation is defined by changing ±40% of measured output load from 60% rated load.
5. The ripple and noise is measured by using 15MHz bandwidth limited oscilloscope and terminated each output with a 0.47 µF capacitor at rated load and nominal line.

### SNP-C03 SERIES 30 WATT— PIN ASSIGNMENT

| Model    | Pin      | 1    | 2    | 3    | 4   | 5    |
|----------|----------|------|------|------|-----|------|
|          | SNP-C03B |      | AC/L | AC/N | FG  | GND  |
| SNP-C036 |          | AC/L | AC/N | FG   | GND | +5V  |
| SNP-C037 |          | AC/L | AC/N | FG   | GND | +12V |
| SNP-C038 |          | AC/L | AC/N | FG   | GND | +15V |
| SNP-C039 |          | AC/L | AC/N | FG   | GND | +24V |
| SNP-C03T |          | AC/L | AC/N | FG   | GND | +48V |